



Recommended Electrical and Plumbing Components

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Tools

If you have a comparable tool then no need to buy another. Feel free to ask our support team if you have any questions. 949 755 0337

1. Crimping Tool & Connectors



[Amazon Link](#)

Application: Used to connect wires together and to add space or ring connections.

2. Cordless Drill/Driver



[Amazon Link](#)

Application: Used to assemble kit components as well as various other installation jobs.

3. Pex Crimp Clamp Cinch Tool



[Amazon Link](#)

Application: Used to cut Pex tubing to length and crimp connections for hot and cold plumbing.



5. 2" Hole Saw



<https://a.co/d/0iiAI9K>

Application: Used to cut holes for solar port and shore power port.

6. Jig Saw



[Amazon Link](#)

Application: Used to cut vent holes in the roof. Not needed in the rest of the kit.

7. Metal T-Shank Jig Saw Blades



[Amazon Link](#)

Application: Used with jigsaw to cut vent holes in roof.

8. Random Orbit Sander



[Amazon Link](#)

Application: Used to sand edges to kit parts.

9. 220 Grit Sand Paper



[Amazon Link](#)

Application: Used with palm sander to help sand edges of kit parts.

10. Caulking Gun



[Amazon Link](#)

Application: Used in applying Sikaflex to vent installation. May also be used during solar installation.

11. Oscillating Multi Tool



[Amazon Link](#)

Application: Used to cut off tabs from kit sheets to prepare for sanding. Also used to cut panel connector strips to length.

11. (OPTIONAL) Oscillating Spindle Sander



[Amazon Link](#)



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Application: Used to sand inner corners where the palm sander can't reach. Optional but recommended.

Insulation

1. Thinsulate



[Swivel Shop](#)

“Vantopia” Code for 5% off order.

Application: Used in the insulation of the van. Approximately 50 feet is needed for short vans and about 70 feet for long vans. Alternatively, Havlock Wool can be used instead.

2. Spray Adhesive



Swivel Shop

"Vantopia" 5% discount code.

Application: Used to bond Thinsulate to the walls of the van.

Quantity: Recommended two cans

Vent Installation

1a. Vent Fan



Amazon Link

Application: Used to help with ventilation in the van.

Quantity: One or two are recommended depending on van size and personal preference. Two vents add more airflow but limit the amount of solar allowed on the roof.

1b. Maxxfan Deluxe Vent, Fan and Vent Cover All in One



[Amazon Link](#)

Application: Rain proof vent option. Used to help with ventilation in the van.

Quantity: One or two are recommended depending on van size and personal preference. Two vents add more airflow but limit the amount of solar allowed on the roof.

2. Butyl Seal Tape



[Amazon Link](#)

Application: Used to create an even-level plane for the vent to mount to.

Quantity: Approximately 1 per vent.

3. Polyurethane Sealant



[Amazon Link](#)

Application: Used to seal vent and prevent water from entering the van. Also used if roof mounted solar brackets are used.

Quantity: One per vent.

Solar

Note: Solar has many potential configurations depending on how much power is needed, vent placement, mounting system, and van model. If you have any questions feel free to reach out to our support team. 949 755 0337.

1. Solar Panels



<https://a.co/d/atRjsVA>

Application: Mounted to the roof of the van to provide power to the power station. Some power stations such as Goal Zero have a max of 50V input and cannot have more than two panels in a series configuration. If you have any questions about solar wiring or what panels would be best for you please contact Vantopia or your power station manufacturer.

Quantity: Varies depending on how much roof is on van's roof after vent installations. We'd recommend at least 200 Watts of rated power.

2. Solar Panel Extension Cable



<https://a.co/d/2SNSBs3>

Application: Used to extend the solar wires from the roof through the pass-through gland and into the van to connect to the power station. Cables will have to be cut in order to pass through entry gland.

Quantity: Recommend either the 15 foot or 20 foot lengths. One pair should be sufficient.

3. 2" Rubber Grommets

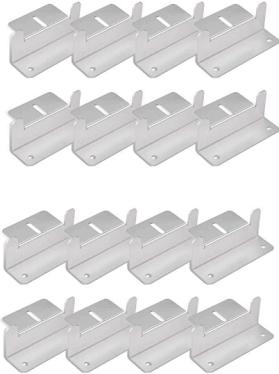


<https://a.co/d/2GhMyib>

Application: Used to cover the hole cut in the roof by the 2" hole saw. Protects the solar wire from the sharp metal edge.

Quantity: Only one used on the roof but another will be used on the optional shore power plug.

4. Solar Mounting Bracket



<https://a.co/d/3OfwELD>

Application: Used to mount solar panels directly to the roof of the van. Strongly recommended to use sealant on top of bolt holes to prevent leaks. Alternatively panels may be mounted to the van manufacturer's factory mounting rail. Contact Vantopia Vans to find out which option may be best for you.

Quantity: 4 brackets per panel

5. Solar Double Cable Entry Gland Box



<https://a.co/d/7yE7xUV>

Application: Used to pass solar cables through the roof of the van into the interior to connect to the power station. Solar cables will have to be cut in order to fit through the gland ports. Sikaflex must be used when mounting to prevent leaks. Gland ports are tightened to fit properly around each cable.



Quantity: Only one needed

6. Y-Branch Cable, Solar Cable Parallel Adaptor



<https://a.co/d/h54K1Nx>

Application: Used to connect panels in parallel instead of series

Quantity: One or two needed depending on configuration. Only needed if panels in parallel.

7. Tower Brackets Compatible with 15 17 Series Rounded Profiles Crossbars for Sprinter (Alternative Brackets)

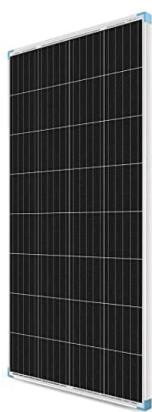


<https://a.co/d/24bUE8B>

Application: Only use as an alternative bracket for Sprinters with factory rail mount system.

Quantity: Two pairs are needed per panel.

8. Solar Panel 175 Watt 12 Volt



<https://a.co/d/iNk5jZP>

Application: Only use as an alternative to other solar panels on Sprinters with rail mounted brackets.

Quantity: One or two panels recommended. May be influenced by number and placement of roof

vents

Electrical

Note: Additional connectors may be needed to connect the solar input and DC output to your power station. Check with your power station to find the appropriate connectors.

1. 14 AWG sheathed double conductor Marine Wire



<https://a.co/d/bilnHcd>

Application: Used to connect DC appliances to the fuse and switch panel. Will connect appliances such as LED lights, vent fans, fridge, and water pump.

Quantity: 50 feet may be sufficient but 100 feet would be recommended.

2. 12 Volt Led Lights

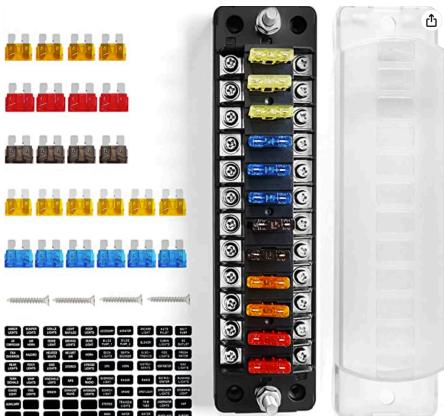


<https://a.co/d/eb4gHfL>

Application: Used to light the main cabin of the van.

Quantity: One 8 pack

2. 12 Circuit Fuse Block W/Negative Bus



<https://a.co/d/gaUPqN7>

Application: Used to provide an additional layer of safety and distribute power from the power station to the various appliances.

Quantity: 1

3. 8 Gang Rocker Switch Panel



<https://a.co/d/dmOWCQO>

Application: Used to switch on and off individual appliances such as lights, vents, and fridge.

Quantity: 1

4. 3-inch Desk Power Grommet



<https://a.co/d/97mexpC>

Application: Used to provide AC power to appliances in the bed and kitchen area.

Quantity: 2 with a basic kit or bathroom module. 3 with combo module.

5. UV Protected Zip Ties



<https://a.co/d/eq7fRmW>

Application: Used to organize wires internally and secure solar wires on the roof.

Quantity: One pack of 100

6. Split Wire Loom Tubing



<https://a.co/d/gmolJhM>

Application: Used to organize wires inside the van. Optional but recommended.

Quantity: One 25 foot 1.5" section.

7. Major Appliance Extension Cord UL Listed 14 Gauge



<https://a.co/d/3T73tSW>

Application: Extends 120V plugs from plug clusters to the power station.

Quantity: Three to four. One per plug cluster plus one for hot water heater.

8. Shore power plug



<https://a.co/d/dYXLFBy>

Application: Used to add shore power to the exterior of the van. Sikaflex should be used to prevent leaks.

Quantity: Not required but one is recommended.

9. Cable Tie Mounts With Screws



<https://a.co/d/gBAMHkw>

Application: Used to help organize and secure wires

Quantity: Not required but recommended

10. 3-Outlet Lighted Black Extension Cord



Application: Used to combine extension cords if limited by power station plugs.

Quantity: Only needed if not enough plugs are available on the power station

10. 12 Gauge Silicone Wire 10 ft red and 10 ft Black Flexible



<https://a.co/d/ensx4AW>

Application: Used to connect power station to the fuse panel.

Quantity: One order of 12 awg 10 foot wire red/black

Plumbing

Note: Plumbing configurations may vary depending on kit selection and layout.
If you have any questions please contact the Vantopia Vans support team at
949 755 0337 support@vantopiavans.com.

1. PEX Pipe 1/2 Inch, Blue



[Amazon Link](#)

Application: Runs cold water from tank to pump, hot water heater, and sink.

Quantity: 25 Ft typically sufficient.

2. PEX Pipe 1/2 Inch, Red

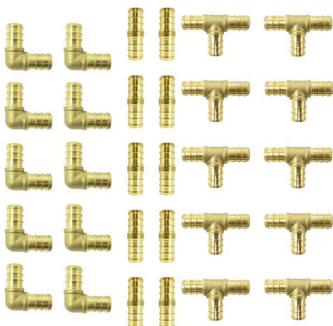


[Amazon Link](#)

Application: Runs hot water from water heater to sink and optional showers.

Quantity: 25 Ft typically sufficient.

3. (30 pieces) 1/2" Brass PEX Fittings



<https://a.co/d/2uRzqRI>

Application: Connects PEX tubing together in joints and T joints



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Quantity: One 30 pack of variety parts

4. 1/2 Inch Clamp Ring



<https://a.co/d/2VwSti0>

Application: Securely attaches PEX connectors to PEX tubing

Quantity: One 100 pack (not all are used)

5. Black Single Bowl Dual Mount Bar Sink



<https://a.co/d/9g6hnRi>

Application: Sink that is mounted into the kitchen island. If you'd prefer a different sink please contact us before your order to confirm fitment

Quantity: One. Select the option without drain and grill.

6. 3-1/2 Inch Kitchen Sink Stainless Steel Basket Strainer



<https://a.co/d/1Bvah2O>

Application: Mounts to drain of the sink. Plumbers putty must be added around the seal to prevent leaks.

Quantity: One.

7. Professional Grade Plumber's Putty



<https://a.co/d/5QwVGfL>

Application: Helps seal sink drain. Create a rink around the drain and test for leaks.

Quantity: One. Hardly any is needed so if you already have some no need to buy another.

8. Flexible Camper Drain Tap



<https://a.co/d/6qxdvyh>

Application: Connects to sink to drain grey water to grey water tank.

Quantity: One.

9. Kitchen Faucet



<https://a.co/d/6J1dUDv>

Application: Sink faucet

Quantity: One. Alternatives faucets may be used but must fit a 1.5" hole.

10. 2.5-gallon/10-liter water container



<https://a.co/d/eLwjupf>

Application: Grey water holding tank.

Quantity: One or two depending on desired grey water capacity. Alternatives tanks may work as well.

11. Pex 1/2 Inch x 1/2 Inch Female NPT Drop-ear Elbow



<https://a.co/d/dHidnG8>

Application: Connects to hot water heater for cold water in and hot water out.

Quantity: One pack of two

12. Pex 1/2 Inch x 1/2 Inch Female NPT Drop-ear Elbow



<https://a.co/d/6e8MJNH>

Application: Connects PEX tubing to sink faucet

Quantity: One pack of two

13. Flojet 03526-144A Triplex Diaphragm Automatic Water System Pump, 2.9 GPM 50 PSI, 12 volt DC



<https://a.co/d/2oM78hv>

Application: Provides water pressure for entire plumbing system. Auto priming

Quantity: One

14. Flojet 01740300A Pump Mini-Strainer

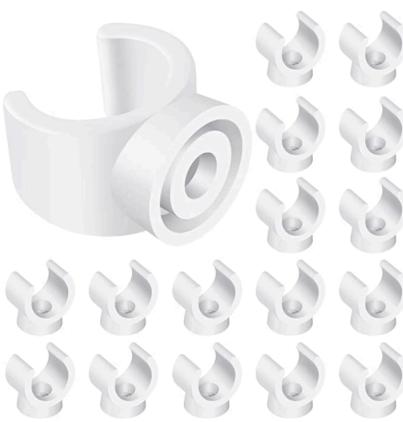


<https://a.co/d/ikSOjA4>

Application: Strains incoming water to prevent larger contaminants from entering the pump

Quantity: One

15. 1/2 Inch PEX Clips



<https://a.co/d/fHY6mMB>



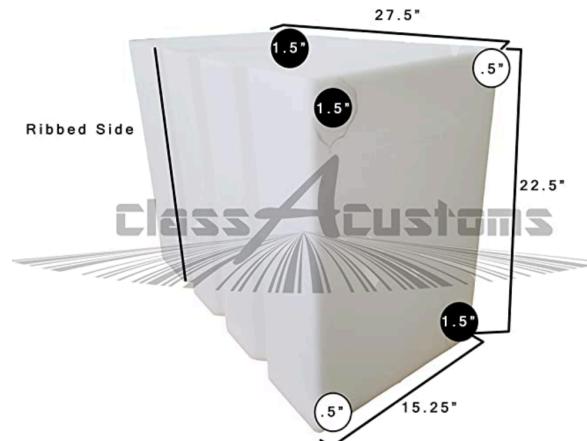
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Application: Clips to PEX tubing to help organize and mount.

Quantity: One pack of 50. Only about 12 needed. Not required but recommended.

16a. 42 Gallon RV Concession Fresh and Gray Water Holding Tank



<https://a.co/d/fW7fMFV>

Application: Fresh water holding tank

Quantity: Only fits raised bed kits. Other tank options acceptable. Other tanks may require other fittings.

16b. Universal 20-Gallon Camper Van Wheel Well Water Tank



<https://nomadicsupply.com/northwest-conversions-20-gallon-camper-van-wheel-well-water-tank-sp-c-20/>

Application: Fresh water holding tank

Quantity: Fits dinette bed configurations

Warning: This tank does not fit all dinette models. Confirm the fitment with the provided render.

16.C One Sided Wheel Well Water Tank



<https://www.campervan-hq.com/collections/wheel-well-water-tanks/products/northwest-conversions-20-gallon-water-tank-sp-l-20>

Application: Fits dinette bed configurations. Best for Transit vans.

Warning: This tank does not fit all dinette models. Confirm the fitment with the provided render.

17. Fresh Water Fill Hatch Inlet



<https://a.co/d/hd9M7M8>

Application: Fills fresh water tank.

Quantity: One

18. Electric Mini-Tank Water Heater



<https://a.co/d/6lhyFXO>

Application: Hot water heater

Quantity: One

19. Pex 1/2"x 1/2" Male Threaded NPT



<https://a.co/d/dJl6ybE>

Application: Connects water tank to PEX

Quantity: One pack of 5. Typically only one used.

20. PEX 1/2" x 1/2" NPT Female Threaded Adapter



<https://a.co/d/f8BfFfg>

Application: Connects water pump to PEX

Quantity: One pack of 6. Typically only two used.

21. Quick Connect Detachable Spray Faucet



<https://a.co/d/guXUvU6>

Application: Optional outdoor shower. Uses two $\frac{1}{2}$ NPT to PEX connectors. Requires teflon tape.

Quantity: One. Optional.

22. PTFE Industrial Sealant Tape



Application: Used to seal threaded plumbing fittings. Make sure to apply the tape in the same direction as the thread

Quantity: One. Common household item you may already have.

23. 1.5" Worm Gear Hose Clamp

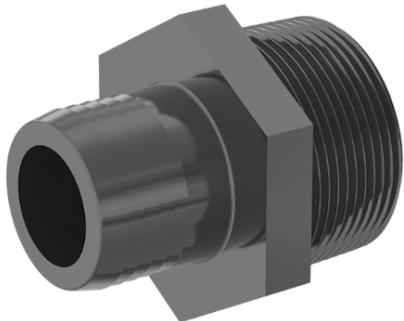


<https://a.co/d/hcp2Ll0>

Application: Secures braided fill hose to the fill port and tank port

Quantity: Only two are needed. Linked to pack of 10.

24. Plastic Barbed Hose Fitting

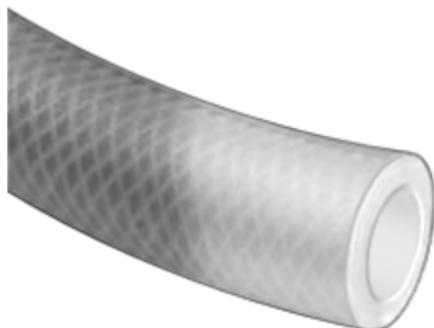


<https://www.mcmaster.com/5218K721/>

Application: Connects braided EVA tube to the water tank. It may vary depending on the water tank selected. PTFE tape is recommended.

Quantity: One

25. High-Pressure Firm EVA Plastic Tubing



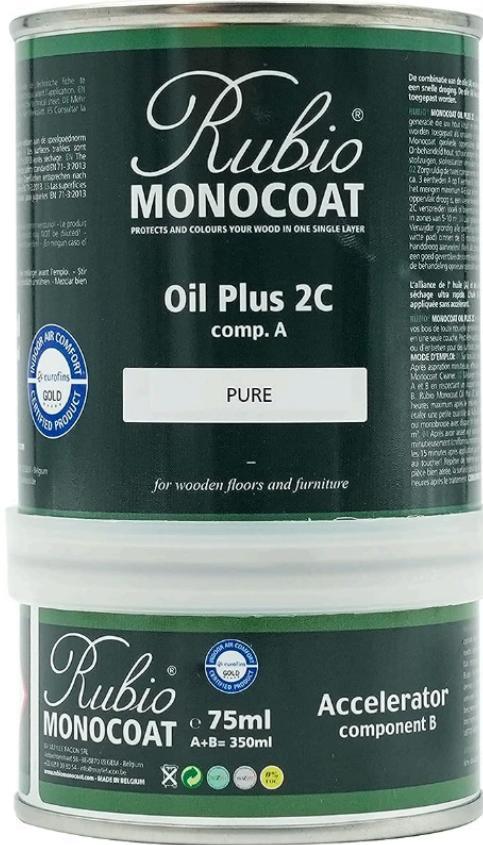
<https://www.mcmaster.com/5632K41/>

Application: Connects the water fill port to the water tank.

Quantity: One

VII Bamboo Finish

1. Rubio Monocoat Oil



<https://a.co/d/bQFNdSa>

Application: Finish

Quantity: 350 mL